Cedars-Sinai Medical Center
Department of Medicine
Artificial Intelligence in Medicine Program

Cedars-Sinai Medical Center Cardiac Suite

Version 2012.0.0.17760

Release Notes

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Contents

Introduction 6
CSMC Cardiac Suite Product Description 6
Product Requirements 7
CSMC Cardiac Suite installation and licensing instructions 8
CSMC Cardiac Suite Released Features-V. 2012 10
CSMC Cardiac Suite Released Features-V. 2009 23
CSMC Cardiac Suite uninstallation instructions 24

Introduction

This document is a general overview of the Cedars-Sinai Medical Center (CSMC) Cardiac Suite software, which includes product requirements, usage notes, user-visible changes and installation/uninstallation instructions.

CSMC Cardiac Suite numbers releases YYYY.0.0.CCCCC, e.g. 2010.0.0.11427. YYYY refers to the code branch (typically the release year but not always) and CCCCC is the change level. Each bugfix in these release notes is marked by its change level number. The listed build includes 1) all changes of all previous releases and 2) all changes of the current release up to the change level number.

CSMC Cardiac Suite is built on a foundation of quantitative algorithms developed at Cedars-Sinai Medical Center; it provides robust image displays including 3D surfaces, 2D polar maps, short axis and transverse images.

CSMC Cardiac Suite provides a user-friendly and intuitive environment within which the operator—technologist or physician—can efficiently process and review all cardiac SPECT and PET studies.

CSMC Cardiac Suite Product Description

CSMC Cardiac Suite is a suite of applications for the processing and review of Cardiac SPECT and PET datasets. CSMC Cardiac Suite is composed of the following applications: Quantitative Perfusion SPECT (QPS), Quantitative Gated SPECT (QGS), Quantitative Blood Pool SPECT (QBS), CSImport (for study selection and management), QARG (for reporting purposes), AutoRecon and Motion Correction (MOCO). QPS and QGS applications may be packaged and marketed into a single application called AutoQUANT. However, the information, features, displays, and all calculations mechanisms remain the same as in the individual version of QPS and QGS with the exception of TID and lung/heart ratio calculations. Furthermore, the Motion Correction (MOCO) application may be directly accessible from the Motion screen of AutoRecon program.

Product Requirements

The following minimum software and hardware requirements should be satisfied before installing CSMC Cardiac Suite.

Function	Specification
Operating System	Windows 7 (32 & 64 bit): Home Premium, Professional, enterprise and Ultimate. Windows Server 2008 R2 (32 & 64 bit): Standard Edition and Enterprise Edition. Windows Server 2008 (32 & 64 bit): Standard Edition and Enterprise Edition. Windows Vista (32 & 64 bit): Home Premium, Business, Enterprise and Ultimate. Windows Server 2003: Standard Edition and Enterprise Edition. Windows XP: Home, Professional, Professional 64-bit. Mac OS X: 10.6 (Snow Leopard) and 10.7 (Lion).
RAM (Random Access Memory)	1 GB (2 GB for Fusion/CT)
Available Disk Space	150MB for installation, additional space required for image data storage.
Screen Resolution	1024x768 with 16-bit color. Wide-screen displays that meet the minimum requirements are supported.
Network Port	Ethernet network adapter (only required for workstation networking scenarios)
Miscellaneous	Mouse (or other pointer devices such as trackpad, trackball, etc) Keyboard

CSMC Cardiac Suite installation and licensing instructions

4.1. The software may be distributed electronically. Before the installation process begin, the zip file containing the software must be saved to the local hard disk on the computer on which the software is to be installed. The zip file is usually named Cedars-<versiondate>.zip.

4.2. Extract or unzip the file. CSMC Cardiac Suite user manual and the more detailed, application specific, reference manuals are available in the doc folder that is part of the unzipped installer package.

4.3. Double-click CSMC_Setup.exe to launch the installer utility and proceed with the installation process. The first screen of the installer welcomes the customer to the installation process. Clicking the Next> button will bring up the End User Software License Agreement screen.

4.4. After reviewing the terms of the End User Software License Agreement, click the I Agree button to proceed to the selection of the components to install, or Cancel if you do not agree with the terms and would like to cancel the software installation.

4.5. Make appropriate selections on the components selection screen based on the options purchased. After making the appropriate selections, click the Next> button to proceed to the selection of the installation location screen.

4.6. The default location where the software will be installed will be displayed on the installation location screen. Click Browse... and select a new destination folder if desired. Once you are satisfied with the installation location, click the Next > button to proceed to the running applications screens that will display any running program that have to be closed before proceeding with the installation process.

4.7. After closing any open programs, click the Install button to start the installation.

4.8. When the installation process is completed, a final dialog is displayed indicating that the software has been installed on the computer. Click Finish to complete the installation process and exit the installation program.

4.9. You may need to restart the computer if requested by the installer. The installer will place a CSI icon on the computer desktop and also create a group under Start > All Programs > Cedars-Sinai Cardiac Suite that contains items for the data browser CSI and the reporting tool QARG (if installed).

4.10. A software licensing dialog will be displayed the first time you attempt to run CSI. The dialog will also display a unique system identifier that will be used to generate a software license key for the purchased options. Provide this system identifier to the engineer that is helping you with the installation and setup process.

4.11. Based on the unique system identifier and the specifications of the customer order, the support engineer will generate a registration license file that can be used to license the purchased options on the customer's computer.

4.12. After obtaining the license file, click the Replace Key File button on the licensing dialogue that is displayed when attempting to run the application for the first time. You will then be prompted to select the location of the license file. To apply the license key, select it and click the Open button to complete the licensing process. The program will automatically detect if the license file is valid or not.

4.13. If the license file is valid, a dialog will appear listing all licensed applications and the license expiration dates. If the license key is invalid, an error dialog will be displayed indicating that the license key does not match this system. If no valid license is found, the software licensing dialog will be displayed the next time you attempt to launch the application. If necessary, the engineer assisting the customer with the installation process may be contacted in order to regenerate the license registration file. Care must be taken to ensure accuracy of the unique system identifier.

CSMC Cardiac Suite Released Features-V. 2012

2012.4 (17760)

Major new functionality or change incorporated in V.2012.4		
Build	Application(s) affected	Feature description
No major functionality introduced in 2012.4		

Minor new functionality or change incorporated in V.2012.4		
Build	Application affected	Feature Description
17537	QPS	MFSC Support Allow QPS to load MFSC images (provided MFSC license is present)
17542	QPS, QGS AUTOQUANT	Remove warning when missing snapshots or CT files Remove warning message when loading a result file and CT files and/or snapshots were not embedded
17731	QPS, AUTOQUANT	Ammonia Databases Added Ammonia (NH3) databases to standard installation

Bug fixes in V.2012.4		
Build	Application affected	Feature Description
17646	QPS, QGS, AUTOQUANT	Dosage information in result file Adds dosage information to result file
17716	QPET	PET Only Mode Removes licensing dialog when running in PET only mode
17734	QBS	Crash in partially processed QBS Results Fixes crash when switch from Phase page to Results page, when RV was not able to be processed.
17748	Fusion/CT	Crash on Window/Level Presets Fixes potential crash when opening window/level presets
17750	QPS, QGS, QBS, AUTOQUANT	Cropping of Large Fonts in Infobox Fixes potential issue with text cropping on infobox (left side panel) when running with an increased font size
17756	QPS, QGS, QBS, AUTOQUANT	Keyboard locking Fixes potential issue which locks keyboard input to all windows applications during Application processing

Vendor Specific Changes in V.2012.4 (only available in vendor's version)

Build	Vendor	Feature Description
17752	Philips	Include updated Astonish Databases

2012.3 (17506)

Major new functionality or change incorporated in V.2012.3		
Build	Application(s) affected	Feature description
17488	Concurrent Server	Statistics Tracking Add statistics tracking to concurrent license server; includes maximum licenses used, average time each client occupies license

Minor new functionality or change incorporated in V.2012.3		
Build	Application affected	Feature Description
17499	QPS, QGS, QBS, AUTOQUANT	Auto-Save When receiving a save and close request from vendor integration, always silently save.
17383	QPS, QGS, QBS, AUTOQUANT	Result File Filtering Filter out result files for types that are known to be incompatible
17250	QPS, AUTOQUANT	Dynamic PET algorithm improvements For DICOM gated PET, consider number of phases when computing inter-frame time, RR interval, heart rate.
17241	QBS	Performance for result file reading Performance improvements to result file reader
17236?	QPS, QGS, AUTOQUANT	PET Only Mode Added PET Only mode to all configurations
17215	QGS, AUTOQUANT	Standard MTQ databases Use explicit Motion Thickening databases, rather than the ones for PFQ; removes chance of database mismatches causing scores not to generate
17120	ALL	Improve available memory Allow applications to use up to 4GB memory when running on 64-bit platforms (previously 2GB)

Bug fixes in V.2012.3		
Build	Application affected	Feature Description
17505	QPS, AUTOQUANT	TPD with multiple stress datasets Fixes issue concerning TPD calculation, when multiple stress datasets are loaded
17501	Concurrent Server	MoCo and AutoRecon communication with Concurrent Server Fixes problem with MoCo and AutoRecon communicating with concurrent server

17456	QPS, QGS, QBS, AUTOQUANT	MFSC on Snapshot Page Make movie captures instantly available on snapshot page
17244	ARG, QARG	ECG ST Segment Elevation on cover letter Fixes issue where stress ECG ST elevation was reported as positive depression (e.g. +3mm ST depression)
17154	ARG, QARG	Print screen on signed report Remove ability for users to add a print screen to a signed report (by clicking PrntScr button). Note that the print screen would have not affected the signed report until the report was unsigned.
17119	QPS, AUTOQUANT	Dynamic PET data identification Improve isotope identification for dynamic PET datasets.

Vendor Specific Changes in V.2012.3 (only available in vendor's version)		
Build	Vendor	Feature Description
17506	Siemens	Added support for syngo.via integration
17493	Philips	Include Astonish and Vantage limits files
17405	Segami	Updates to licensing calls to match Segami's specs
17373	Segami	Include MSDE (SQL Server) for Segami

2012.2 (17114)

Major new functionality or change incorporated in V.2012.2		
Build	Application(s) affected	Feature Description
No major functionality introduced in 2012.2		

Minor new functionality or change incorporated in V.2012.2		
Build	Application affected	Feature Description
17095	CSI, INSTALLER	Initialization of CSI applications Automatically initialize the quantitative applications available from CSI based on the features installed and licenses available.
17055	ALL	Updated translation files Updated translation files (French, Italian, German, Spanish, Chinese and Japanese) to include additions and fix reported errors.
17038	CSI	DICOM Push Enabled installation of DICOM Push feature by default
16972	ARG	Performance Improvements Performance improvements for large ARG databases
16942	QPS, QGS, AUTOQUANT	CT Snapshots Enable embedding of CT snapshots, even if CT embedding is disabled

Bug fixes in V.2012.2		
Build	Application affected	Feature description
17059	QARG	Dialog Layouts Minor layout adjustments to login, global preferences and export dialogs
16989	QPS, AUTOQUANT	Motion / Thickening Identical Polarmaps Fixes issue where MTQ bases motion and thickening blackout maps are identical
16935	Concurrent Server	Icon display Fixed alignment issue with logo display when viewing in IE (internet explorer)

Vendor Specific Changes in V.2012.3 (only available in vendor's version)		
Build	Vendor	Feature Description
17077	Thinksys	Added Thinksys configuration

2012.1 (16829)

Major new functionality or change incorporated in V.2012.1		
Build	Application(s) affected	Feature description
16464	QPS, AUTOQUANT	Computer generated scores Whenever a Stress/Rest dataset pair exists, the following rule shall apply to computer generated, pixel based, values (i.e., Defect, Extent, TPD, etc): Rest scores with values that are higher on rest than on stress shall be assigned the stress score values. Previously this rule was only being applied to segment based summed scores.
16287[1]	QGS	Saving Motion Frozen datasets Whenever the motion frozen technique is used to create a new motion frozen dataset, there will be an extra tab "Frozen" available within the Save Results dialog that allows users to save motion frozen datasets back to the database. The MF dataset can then be loaded into QPS for evaluation.

[1]Only applies to Cedars-Sinai direct version

Minor new functionality or change incorporated in V.2012.1		
Build	Application affected	Feature description
16471	Installer	Arecon & floating license server AutoRecon and Concurrent license server shall be available in the GUI-component selections, for Cedars-Sinai direct version installation.
16394	QGS, AUTOQUANT	MTQ Processing Enable new motion / thickening algorithm even if PFQ is not enabled
16274	QPS, QGS, CSI	Upright imaging The application now supports upright (“sitting”) patient orientation.
16268	QGS, AUTOQUANT	Save Motion Frozen Added option in save dialog to save motion frozen results to database
16222	ARG	Conflict handling When a user hits “sign”, If there are *any* changes made to the study in another instance (by a different user such as a technologist or an assistant at their workstation), the user should be warned by being presented with a conflict dialog.
16157	Concurrent Server	Upload key from Server Added ability to upload a license file directly from the license server
16144	AutoRecon	Prompt to Save if dirty Added prompt to Save/Exit/Cancel if results are processes and dirty

16040	AutoRecon	Iterative Reconstruction Refinements
16038	QGS, AUTOQUANT	Smoother Severity Polarmaps When running with the new motion/thickening algorithm severity polarmaps will be smoothed for display purposes
15998	QGS, QPS, AUTOQUANT, QBS	Snapshots instantly available When saving a snapshot in application, it will be instantly available on the snapshot page for viewing; previously snapshots were only exported and not instantly available
15981	QGS, QPS, AUTOQUANT, QBS	Result Files Results files saved in compatibility format will have the version identifier added to the series description (e.g. "(v3)")

Bug fixes in V.2012.1		
Build	Application affected	Feature description
16666	QPS, QGS, QBS, AUTOQUANT	UTF-8 Results file Fixes issue saving non-latin patient names to result files
16638	Concurrent Server	License Removed from Server Fixed error with concurrent server, where licenses were getting periodically dropped from the server.
16514	QBS	Intermittent Crash on Counts Page Fixes intermittent crash on counts page
16310	QPS, AUTOQUANT	Sync of visual scores between multiple datasets Correctly handle case where multiple images reference the same set of visual scores
16294	QPS, AUTOQUANT	Summed Difference Score Displayed SDS is now more consistent with displayed SSS & SRS. Whenever more than 2 summed short axis datasets are loaded (either 3 or 4), the SDS (and SD%) is calculated using the same datasets that were used for calculating SSS and SRS.
16292	QBS	Dataset Editor Display Hide the dataset editor warnings in QBS (N/A for QBS)
16142	AutoRecon	About Box Moved About Box button from colorscale control to main button area
16231	CSI	Intermittent Crash in CSI after launching QXS Fixes intermittent crash in CSI after launching QPS, QGS or QBS
16208	QPS, AUTOQUANT	SRS Calculation error Fixes SRS calculation error, which occurred when not running ARG; previously SRS = SSS

16129	QBS	QBS Masking Bug Fixed issue related to QBS manual masking
16127	ALL	Intermittent Open GL Crash Fixes intermittent crash related to Open GL windows
16101	QPS, QGS, QBS, AUTOQUANT	Low resolutions support Fix for defaults dialog and infobox when running in low resolutions (e.g. 1024 x 768)
16095	QARG	Crash in comparison sentence editor Fix intermittent crash in comparison sentence editor
16074	QARG	Crash when creating new referring physician Fixes crash when selecting 'new...' from referring physician dropdown
16012	QGS/QPS, AUTOQUANT (with QPET)	PET slices collation error Bug fix for PET slices collation error. Previously, when single frame DICOM data was loaded via a DICOMDIR, intermittently, contiguous volumes were collated incorrectly (missing slices, slice fragments).

Vendor Specific Changes in V.2012.1 (only available in vendor's version)		
Build	Vendor	Feature Description
15986	Mirada	Force color scale / window level to lie within application window
16727	Philips	Support for Portal Environment

2012.0 (15910)

Major new functionality or change incorporated in V.2012.0		
Build	Application(s) affected	Feature description
15830[1]	QGS, QPS, AUTOQUANT	<u>Results File</u> Results files may now be loaded into the respective application regardless of the mode (QGS/QPS/AQ) of generating application. Only applicable results will appear based on the application being launched (i.e., Only perfusion results will be loaded when launching QPS using AutoQUANT or QGS results files)
15581	ARG/QARG	<u>Auto Dictation update</u> Auto dictation is generated for myocardial perfusion studies based on their polar map scores (ex: "* LAD:|a small reversible defect in the anterior wall."). This is now done when SSS > 2. Previously this sentence would only get generated when SSS > 3.
15393	CSI	<u>AimConfig</u> New, wizard-like, feature that assists users with establishing DICOM connectivity between CSI and other supported workstations.
15277	QGS/QPS, AUTOQUANT	<u>Quality Score</u> Novel method developed to evaluate the segmentation of the left ventricle in SPECT images for the gated and non-gated stress/rest scans with and without attenuation correction.
15165	QPS, AUTOQUANT (with Fusion/CT)	<u>Automatic Registration</u> Using novel techniques, this feature allows for automatic software co-registration of coronary CTA and MPS images obtained on separate scanners, allowing CTA-guided contour and vascular territory adjustment on MPS for improved quantitative MPS analysis.
15161	QGS, AUTOQUANT	<u>Motion/Thickening scores</u> Algorithm for calculating Motion and Thickening scores has been improved and updated.
13572	QPS, AUTOQUANT (with QPET)	<u>Kinetic</u> New feature for processing and reviewing dynamic cardiac PET data sets. Feature includes specific algorithm for 82RB and 13N-NH3 tracers for calculating absolute blood flow and coronary flow reserve (CFR). Spill-over fraction and RPP correction are also included on the Kinetic page.
12011	QGS, AUTOQUANT, QBS	<u>Phase</u> Thickening Phase information is now directly derived from count variations which is different from previous method that used the epi- and endocardial surfaces.

12011	QGS, AUTOQUANT, QBS	Phase Echo like measurements, TTPV, TTMD and TTMT, are hampered by the comparatively low temporal resolution of SPECT imaging. These have been removed in version 2012 to simplify the software and focus it more on clinically relevant measures.
11427	CSI, QPS, AUTOQUANT, QGS, QBS	Localization Cedars-Sinai Cardiac Suite now supports 7 languages (Simplified Chinese, English, French, German, Italian, Japanese and Spanish).

[1]Only applies to Cedars-Sinai direct version

Minor new functionality or change incorporated in V.2012.0		
Build	Application affected	Feature description
15909	ARG	Arg database credentials Default ARG database credentials are changed to 'arguser' for username and 'CSMCnm42!!' for password.
15904	QGS, QPS, AUTOQUANT, QBS, QARG, CSI	About Box The about box which is accessible from all applications has been updated to comply with EU standards. It now contains CE mark logo, manufacturer logo, European Representative info, etc.
15878	ARG/QARG	ICANL elements -New ICANL required element "Route of administration" for all radiopharmaceuticals and stress agents has been added to the report templates. (i.e., "0.4 mg regadenoson" will now be reported as "0.4 mg IV Regadenoson"). -To comply with ICANL standard, reports will state "electronically signed" when applicable.
15876	ARG/QARG	ARG reports – "electronically signed" Whenever a report is signed electronically, an "electronically signed" label with the date/time of the signing will be placed in the footer section of the report.
15874	ARG/QARG	Regadenoson test types 11 different Regadenoson test types (i.e., Regadeno Rb, Regadeno Mibi, Regaden Thallium, etc) have been added to default 'study type' list.
15851	CSI, QPS, AUTOQUANT, QGS, QBS, QARG	User Manuals Individual quick start guides have been combined into a single user manual for the entire suite of applications. More detailed reference manuals are available for individual applications.
15842	CSI	User Manuals and Reference Guides User manuals and reference guides now available from CSI menu

15819	QPS, QGS, AUTOQUANT	XML Results Allow XML results output without ARG, provided an ARG license is present
15805	ALL	CE Marking Modified About box to include required labeling for CE Mark.
15766	Silent Installation (vendors only)	Custom instance name The silent installer (using silent.ini file) now allows the ability to change the instance name for the ARG SQL Server database.
15607	ARG/QARG	Regadenoson Warning message routines for pharm stress doses have been updated to accommodate Lexiscan (Regadenoson).
15293	ALL Applications	Research Only Mode Added research only mode to all applications. Title bar, images and all secondary captures state 'Research Only'.
15269	QGS, AUTOQUANT	Motion Frozen The Motion Frozen technique is now supported with gated datasets with any number of frames greater than 1.
15367	QGS, QPS, AUTOQUANT	Heart Rate - Unknown Added 'unknown' option when manually editing heart rate
15227	QGS, QPS, AUTOQUANT	Heart Rate (BPM) Editing Added ability to manually override (edit) heart rate, used for diastolic function, phase and dynamic calculations. Persists in result files
15126	QPS, AUTOQUANT, QGS, QBS, CSI	Non-Latin characters The software is now able to decode and display patient name containing non-Latin character sets allowed by DICOM. This is subject to the availability of fonts required for the character sets from the operating system. Additionally, for Chinese, Japanese and Korean, if multiple forms (up to 3, separated by "=" in the DICOM person name field) of the name are present in the DICOM person name value, the application shall display all of the names that are present.
15107	QPS, QGS, QBS	Add '-indir' integration option Added ability to specify inputs to qxs.exe using -indir <*foldername*>. Where *foldername* contains a path containing supported image files (e.g. DICOM).
15080	ARG Server	Strong SA Password Change Change default SQL Server password to be compliant with updated best practices for strong security - required for Windows Server 2008.

Bug fixes in V.2012.0		
Build	Application affected	Feature description
15826	QGS, AUTOQUANT	Phase histograms Fixes drawing issue with phase histograms
15810	ARG, INSTALL	Incorrect segmental mode on install Installation now defaults to 17 segment mode (if companion available)
15790	ARG/QARG	EDVi units ARG reports were reporting EDVi units as “ml/ml2” instead of “ml/m2”.
15684	ARG/QARG	Regadenoson units ARG reports incorrectly used to report regadenoson units as "mg/kg" instead of "mg".
15670	ARG/QARG	ARG Likelihood Sentence If likelihood filled out and the patient's history contains a myocardial infarction; then: * if a pharmacological study then list "jeopardized myocardium" * if an exercise study then list " exercise induced ischemia" Otherwise list "angiographically significant coronary artery disease".
15653	ARG/QARG	Report viewer The view reports function for signed study used to intermittently show a grey window until the user clicked the window, which would display the report. This is now fixed.
15509	ARG/QARG	Report dates If QARG loads a study with valid dates, then loads another with any unset dates (i.e. a new study), the program cannot reset the control to empty, so the date fields would default to the values from the previously loaded study. This impacts the “acquisition times” in the perfusion quant section. A new type of date/time control which can deal with empty dates is created to address this.
15452	ARG/QARG	Auto dictation Wall motion abnormalities reporting logic has been changed. In the “Myocardial Function” section, there is a sentence like “Resting and exercise post stress gated SPECT revealed no wall motion abnormalities” which should be shown only if there are both stress and rest gated scores, and both are all 0s. In previous version, the sentence used to be shown if rest scores were all 0s regardless of stress scores.
15294	ALL	Help button - Reference Guides Clicking the 'Help' button within each application will now open the application's reference guide

15292	QARG	Splash Page and icons Fixed issue preventing splash page from displaying during startup and main application icon displaying in title bar
15272	QPS, AUTOQUANT (with QPET)	UI indication when RPP correction applied Added Legend display when RPP correction applied to dynamic flow
15269	QGS, AUTOQUANT	Motion Frozen - unusual gating intervals Permit motion frozen algorithm to run on datasets with unusual gating intervals (e.g. 12 frames). Previously only 8 and 16 frames were supported

CSMC Cardiac Suite Released Features-V. 2009

Major new functionality or change incorporated in V. 2009	
Application affected	Feature description
QGS	Phase New Phase page added. Previously, Phase information was displayed using a separate dialog/toggle from the Results page.
QGS	Phase Multiple datasets may be processed and displayed on the Phase page.
QGS	Phase New 'Combine' button added to the Phase page, which displays a single, shaded polar map for phase angle and amplitude.
QGS, QPS, AUTOQUANT	Screen captures When running with ARG, look for PrintScreen key in addition to Ctrl+Shift+P for ARG Screen Captures.
QGS, QPS, AUTOQUANT, QBS	Printer Print dialog now lists all available printers
QGS, QPS, AUTOQUANT, QBS	Dataset selector Colors and symbols were added to the dataset selector dropdown menu to make it easier to differentiate between datasets.
ARG/QARG	Editing Users can now override stress and rest isotopes added to test type using 'Edit' or 'Edit Study Information' options.
ARG/QARG	ICANL logo Accreditation logo(s) was added for ICANL, which can be enabled through site manager.
ARG/QARG	Page numbers ARG reports now contain page number.
ARG/QARG	Data exports Additional fields were added for data export: signing physicians, study date and test type.

CSMC Cardiac Suite uninstallation instructions

6.1. Cedars-Sinai Medical Center AIM Program software application(s) may be un-installed using the Windows Add or Remove Programs utility, which may be accessed in the control panel section. Access the Windows control panel by clicking the Start button located at the bottom left hand side of the screen and then selecting the Control Panel option.

6.2. Double-click add or remove programs button to start the utility, which should display a list of currently installed programs.

6.3. To un-install the Cedars-Sinai Medical Center AIM Program software, select CSMC Cardiac Suite from the list of programs. Clicking the Remove button will initiate the un-installation process.

6.4. A confirmation dialog will be displayed that indicates the software is about to be un-installed from the workstation. Click the uninstall button to proceed with the un-installation process.

6.5. When the utility is finished with the un-installation process, a dialog will be displayed that indicates the completion of the un-installation process.

6.6. Return all related documents and license key registration files to the support engineer. Furthermore, destroy any relevant files saved on an external media such as a flash drive.